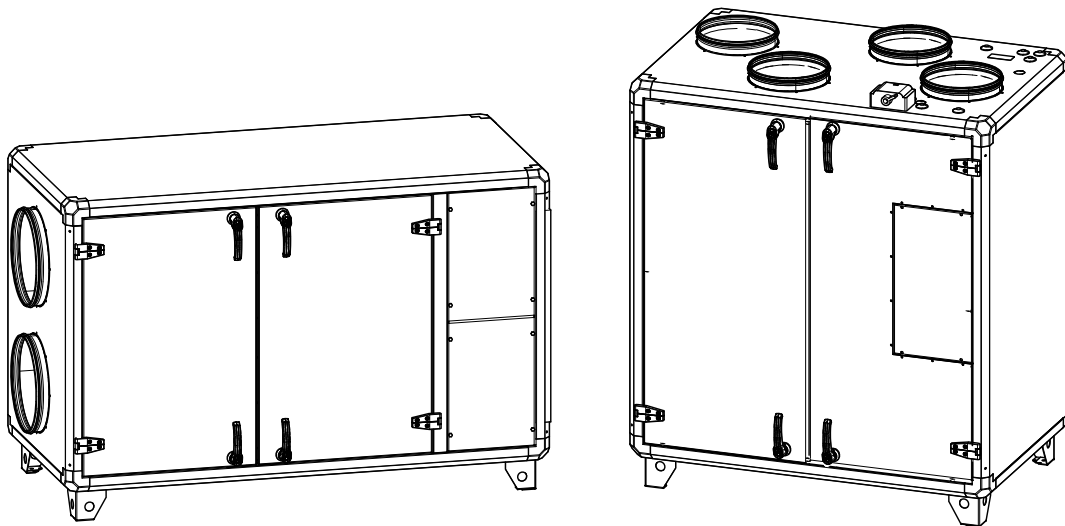


Topvex SX/TX

Compact Air Handling Unit



GB Installation instructions

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1 Declaration of Conformity

Manufacturer



Systemair Sverige AB
 Industrivägen 3
 SE-739 30 Skinnskatteberg SWEDEN
 Office: +46 222 440 00 Fax: +46 222 440 99
 www.systemair.com

hereby confirms that the following products:

Air handling units

Topvex SX03 EL	Topvex SX03	Topvex SX03 HW
Topvex SX04 EL	Topvex SX04	Topvex SX04 HW
Topvex SX06 EL	Topvex SX06	Topvex SX06 HW
Topvex TX03 EL	Topvex TX03	Topvex TX03 HW
Topvex TX04 EL	Topvex TX04	Topvex TX04 HW
Topvex TX06 EL	Topvex TX06	Topvex TX06 HW

(The declaration applies only to product in the condition it was delivered in and installed in the facility in accordance with the included installation instructions. The insurance does not cover components that are added or actions carried out subsequently on the product)

Comply with all applicable requirements in the following directives

- Machinery Directive 2006/42/EC
- EMC Directive 2004/108/EC
- Low Voltage Directive 2006/95/EC

EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction
EN 13857	Safety of machinery – Safety distances to prevent hazard zones being reached by upper or lower limbs
EN 60204-1	Safety of machinery – Electrical equipment of machines – Part 1: General requirements
EN 60335-1	Household and similar electrical appliances – Safety Part 1: General requirements
EN 60335-2-40	Safety of household and similar electrical appliances - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers
EN 50106:2007	Safety of household and similar appliances – Particular rules for routine tests referring to appliances under the scope of EN 60 335-1 and EN 60967
EN 60529	Degrees of protection provided by enclosures (IP Code)
EN 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure
EN 61000-6-2	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments
EN 61000-6-3	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standards for residential, commercial and light-industrial environments

The complete technical documentation is available.

Skinnskatteberg, 14-04-2015



Mats Sándor
 Technical Director

2 Warnings

The following admonitions will be presented in the different sections of the document.

Danger

- Make sure that the Mains supply to the unit is disconnected before performing any maintenance or electrical work!
- All electrical connections must be carried out by an authorized installer and in accordance with local rules and regulations.

Warning

- The door handles are only intended to be used during the installation and service. These must be removed before the unit is put into operation to ensure the required level of safety for the unit.
The unit must be duct connected or in some other way provided with protection so that it is not possible to come in contact with the fans through the duct connections
- The unit is heavy. Be careful during transport and mounting. Risk of injury through pinching. Use protective clothing.
- Beware of sharp edges during mounting and maintenance. Make sure that a proper lifting device is used. Use protective clothing.
- The units electrical connection to the mains supply must be preceded by an all pole circuit breaker with a minimum 3 mm gap.

Caution

- If the unit is installed in a cold place make sure that all joints are covered with insulation, and tape well
- Duct connections/duct ends should be covered during storage and installation
- Do not connect tumble dryers to the ventilation system
- Take care not to damage the water battery when connecting water pipes to connectors. Use a spanner to tighten the connection.

3 Product information

3.1 General

This installation manual concerns air handling unit type Topvex SX/TX manufactured by Systemair AB. Topvex SX/TX include the following model options:

- **Model:** SX03, SX04, SX06, TX03, TX04, TX06.
- **Heating coil:** **EL** (Electric) or **HW** (Water coil)

Right or left models: **R** (Right) **L** (Left). The side where the supply air is located when viewed from the access side.

This manual consists of basic information and recommendations concerning the design, installation, start-up and operation, to ensure a proper fail-free operation of the unit.

The key to proper and safe operating of the unit is to read this manual thoroughly, use the unit according to given guidelines and follow all safety requirements.

3.2 Technical data

3.2.1 Dimensions and weight Topvex SX03

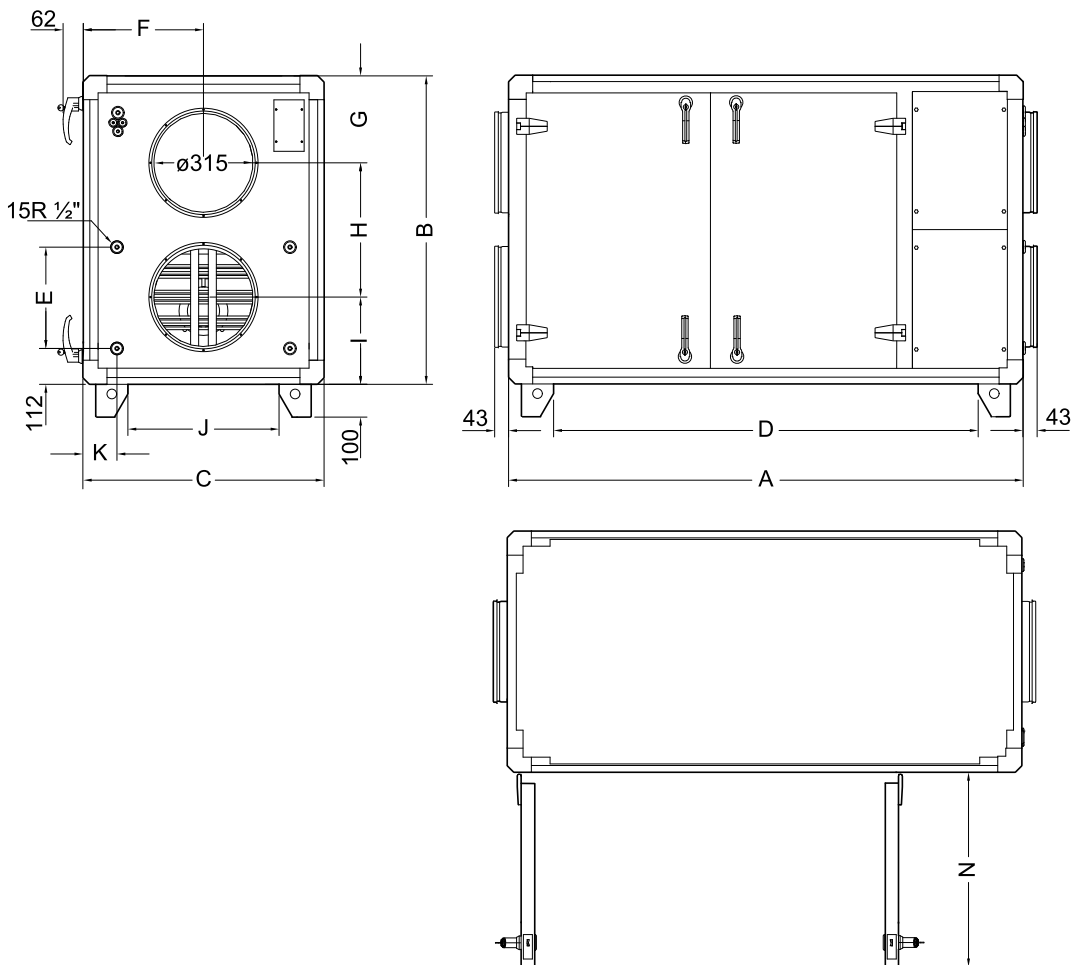


Fig. 1 Dimensions (mm) Topvex SX03 (drawn as right hand unit)

Model	A	B	C	D	E	F
SX03	1600	960	750	1320	315	375

Model	G	H	I	J	K	N	Weight, kg
SX03	271	418	271	470	106	630	197

3.2.2 Dimension and weight Topvex SX04-SX06

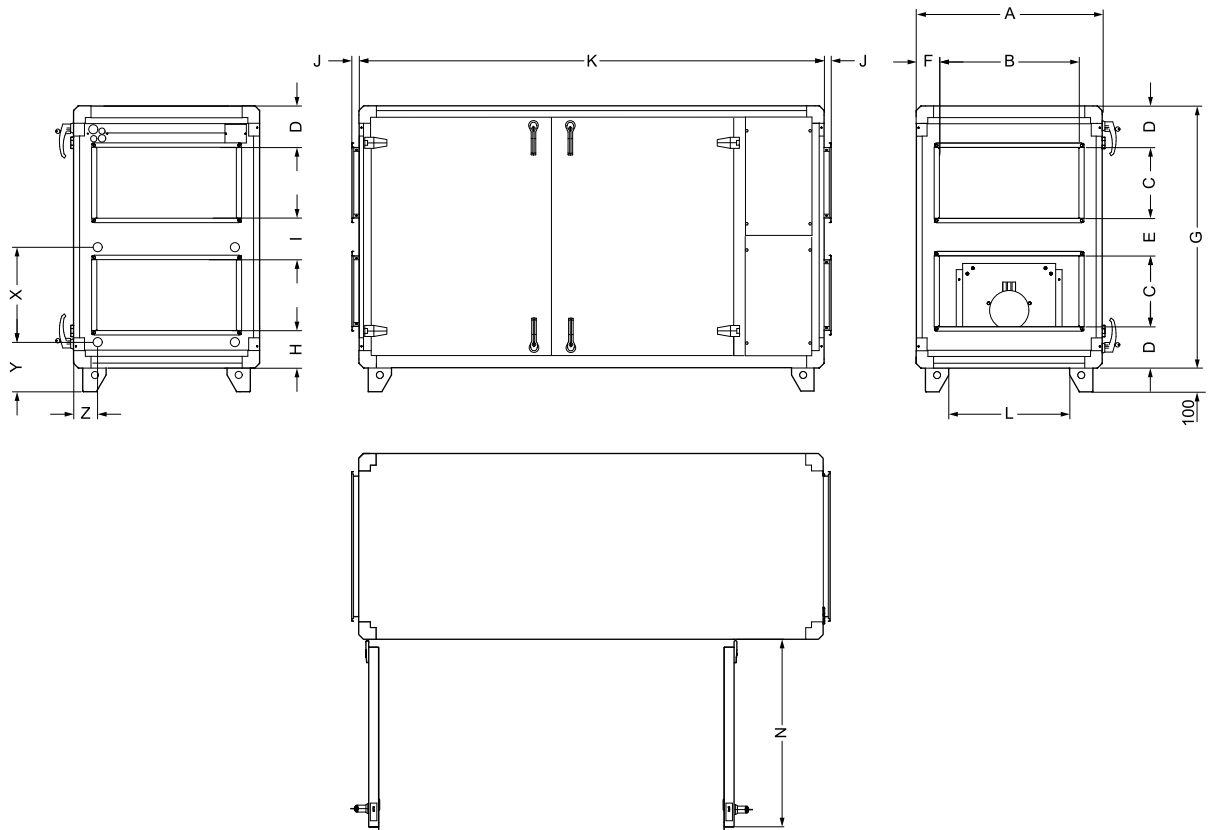


Fig. 2 Dimension (mm) Topvex SX04-06 (drawn as right hand unit)

Model	A	B	C	D	E	F	G	H
SX04	800	500	250	187	167	150	1041	171
SX06	800	600	300	180	167	100	1127	164

Model	I	J	K	L	N	X	Y	Z	Weight, kg
SX04	183	30	1747	520	698	355	212	106	260
SX06	183	30	2000	520	824	410	204	106	308

3.2.3 Dimension and weight Topvex TX03-TX04

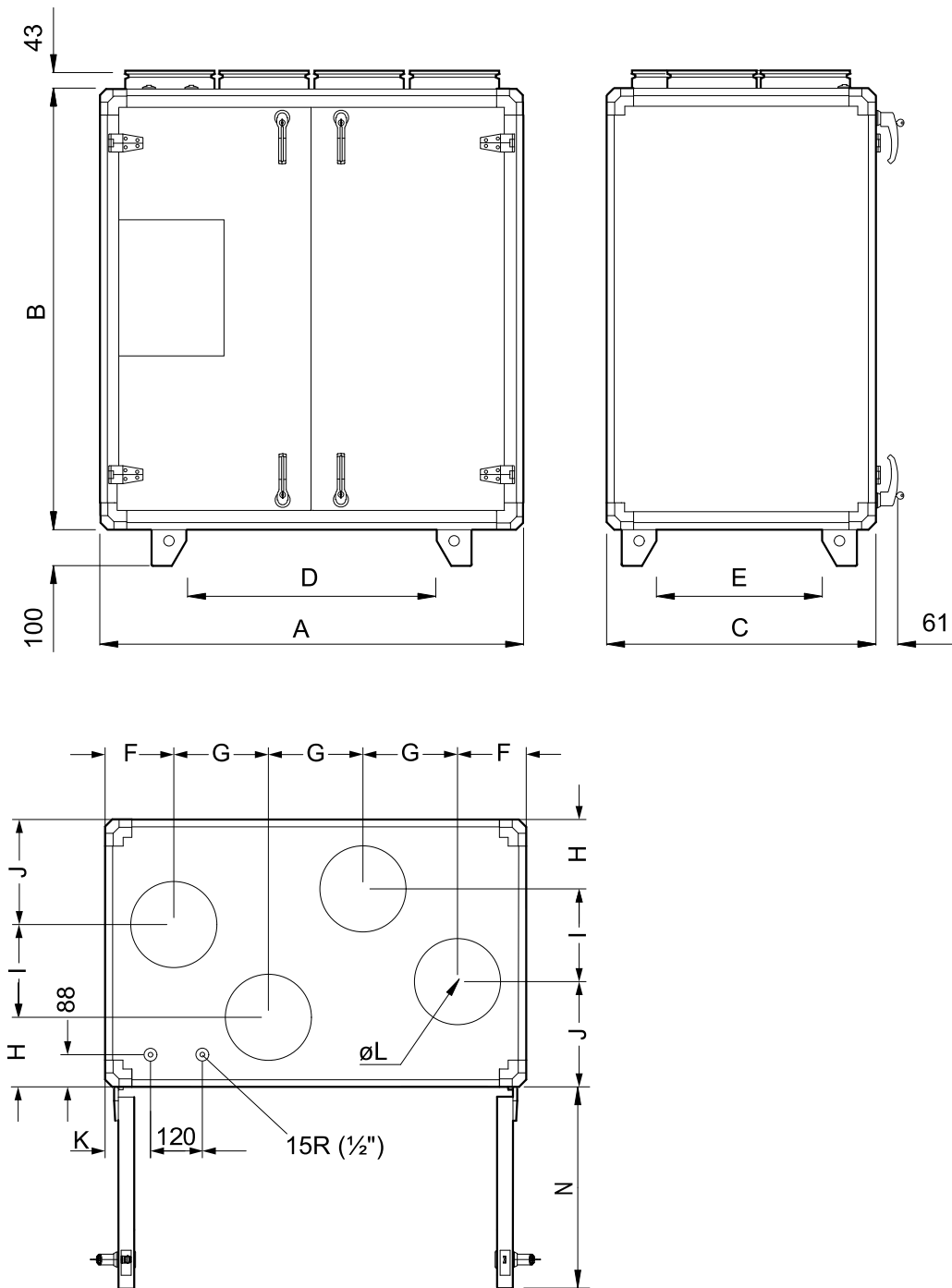


Fig. 3 Dimension (mm) Topvex TX03-04 (drawn as left hand unit)

Model	A	B	C	D	E	F	G
TX03	1180	1230	750	896	466	193	265
TX04	1480	1280	850	1200	570	209	354

Model	H	I	J	K	$\varnothing L$	N	Weight, kg
TX03	195	260	295	127	250	586	192
TX04	315	220	315	163	315	740	251

3.2.4 Dimensions and weight Topvex TX06

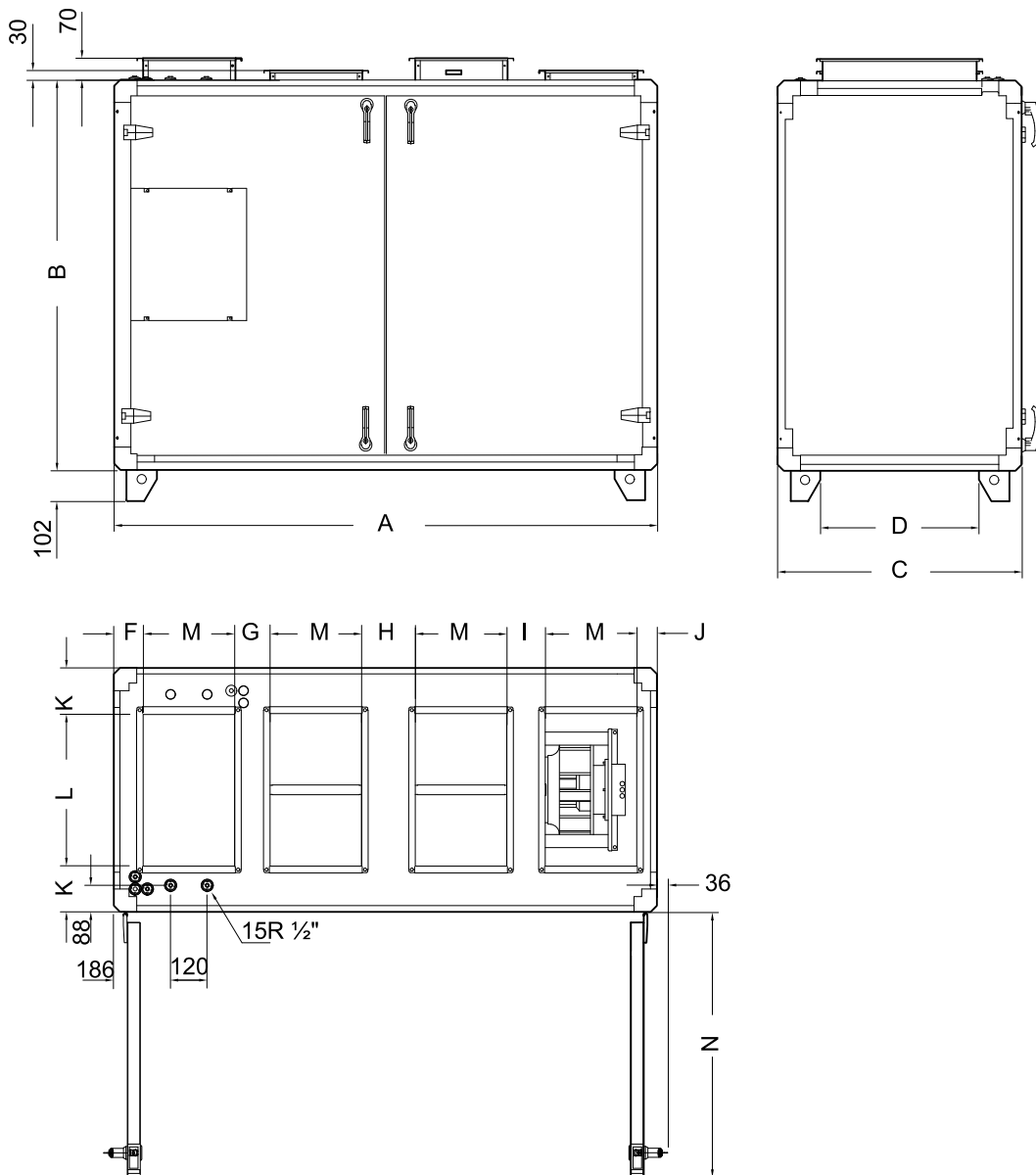


Fig. 4 Dimensions (mm) Topvex TX06 (drawn as left hand unit)

Model	A	B	C	D	F	G
TX06	1780	1280	800	520	96	116

Model	H	I	J	K	øL	N	Weight, kg
TX06	176	127	66	150	500	882	335

3.2.5 Electrical data Topvex SX03-SX06, Topvex TX03-TX06

3.2.5.1 Topvex SX03-SX06

Model	Fans (W tot.)	EI Heating battery	Fuse (mains)
Topvex SX 03 EL 400V 3N~	992	6 kW	3x16 A
Topvex SX 03 HW 230V 1~	992	–	10 A
Topvex SX 04 EL 400V 3N~	1520	12 kW	3x32 A
Topvex SX 04 HW 230V 1~	1520	–	10 A
Topvex SX 06 EL 400V 3N~	2104	14 kW	3x32 A
Topvex SX 06 HW 400V 3N~	2104	–	3x10 A
Topvex SX 04 EL 230V 3~	1520	12 kW	3x40 A
Topvex SX 06 EL 230V 3~	2104	14 kW	3x50 A
Topvex SX 06 HW 230V 3~	2104	–	3x10 A

3.2.5.2 Topvex TX03-TX06

Model	Fans (W tot.)	EI Heating battery	Fuse (mains)
Topvex TX 03 EL 400V 3N~	1028	6 kW	3x16 A
Topvex TX 03 HW 230V 1~	1028	–	10 A
Topvex TX 04 EL 400V 3N~	1592	12 kW	3x32 A
Topvex TX 04 HW 230V 1~	1592	–	10 A
Topvex TX 06 EL 400V 3N~	2168	14 kW	3x32 A
Topvex TX 06 HW 400V 3N~	2168	–	3x10 A
Topvex TX 04 EL 230V 3~	1592	12 kW	3x40 A
Topvex TX 06 EL 230V 3~	2168	14 kW	3x50 A
Topvex TX 06 HW 230V 3~	2168	–	3x10 A

3.3 Transport and storage

Topvex SX/TX is delivered in one piece standing on a pallet for easy transportation using a forklift. The unit should be stored and transported in such a way that it is protected against physical damage that can harm panels, handles, display etc. It should be covered so that dust, rain and snow cannot enter and damage the unit and its components. The appliance is delivered complete with all necessary components, wrapped in plastic on a pallet for easy transportation.

When transporting the Topvex SX/TX units use a forklift placed on the gable of the unit.

Note:

Necessary parts like control panel, supply air sensor, handles, mounting feet, drainage pipe with drain trap and electrical safety switch are placed loosely inside the unit. The unit must not be put into operation before the enclosed parts are removed and installed properly.

Warning

The unit is heavy. Be careful during transport and mounting. Risk of injury through pinching. Use protective clothing.

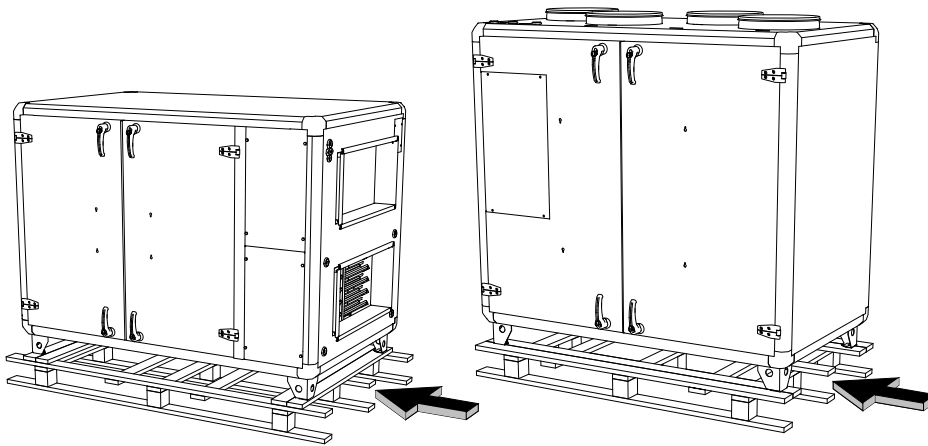


Fig. 5 Transporting the unit

4 Installation

4.1 Unpacking

Verify that all ordered equipment are delivered before starting the installation. Any discrepancies from the ordered equipment must be reported to the supplier of Systemair products.

4.2 Where/how to install

Topvex SX/TX are meant for indoor installation. Place the unit on a **horizontal flat surface**. It's important that the unit is completely levelled before it is put into operation.

Place the unit preferably in a separate room (e.g. storage, laundry room, attic or similar). The electronic components should not be exposed to lower temperature than 0°C and higher than +50°C.

If the unit is installed in a cold place it is important that the unit is not shut-off by the main switch. As long as the main voltage is on the electrical cabinet will be kept warm also in cold climates. Although the unit is turned off by the control system the current is on.

When choosing the location it should be kept in mind that the unit requires maintenance regularly and that the inspection doors should be easily accessible. Leave free space for opening the doors and for taking out the main components (figure 1-figure 4).

Avoid placing the appliance against a wall, as low frequency noise can cause vibrations in the wall even if the fan noise-level is acceptable. If this is not possible it is recommended to carefully insulate the wall.

The outdoor air intake of the building should if possible be put in the northern or eastern side of the building and away from other exhaust outlets like kitchen fan outcasts or laundry room outlets.

4.3 Installing the unit

The unit must be installed in the following position (figure 6 and figure 7).

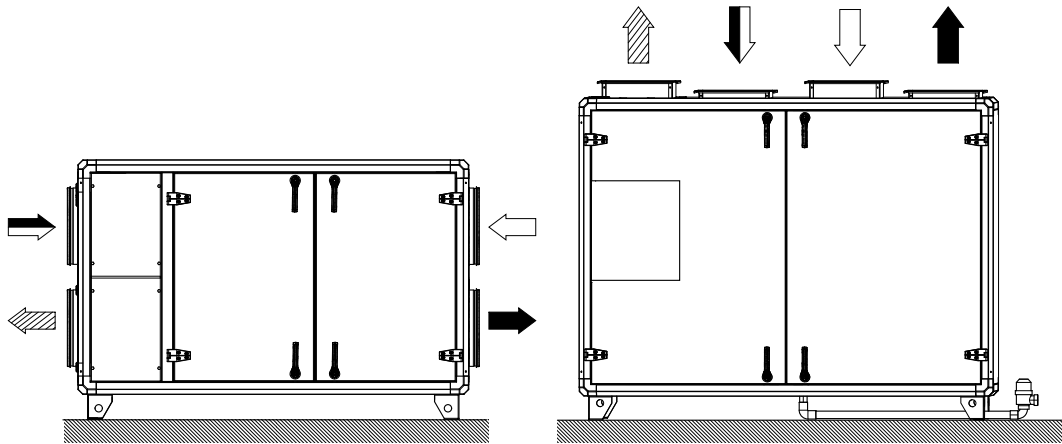


Fig. 6 Installation position (left hand units)

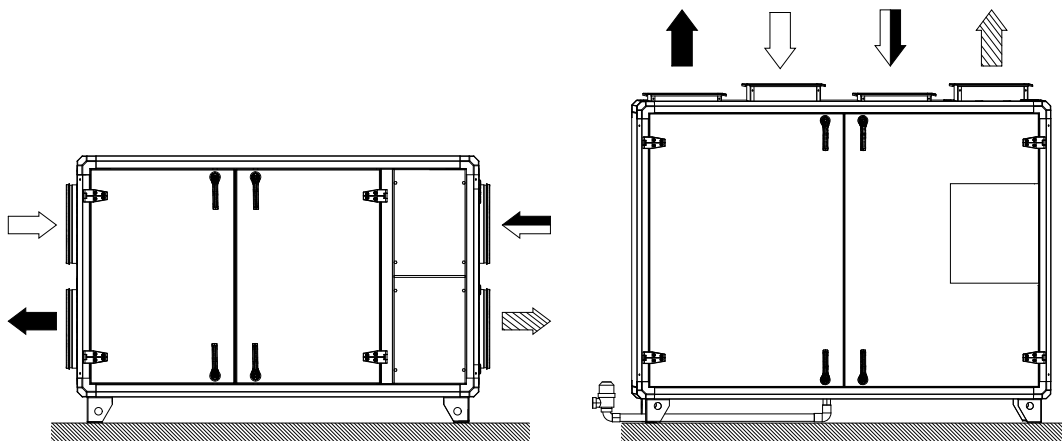


Fig. 7 Installation position (right hand units)

Table 1: Symbol description

Symbol	Description
	Supply air
	Exhaust air
	Outdoor air
	Extract air

4.3.1 Installation procedure

1

Prepare the surface where the unit is to be mounted. Make sure that the surface is flat, levelled and that it supports the weight of the unit. Perform the installation in accordance with local rules and regulations.

2

Lift the unit in place.

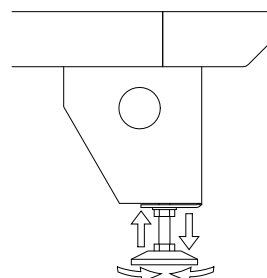


Warning

Beware of sharp edges during mounting and maintenance. Make sure that a proper lifting device is used. Use protective clothing.

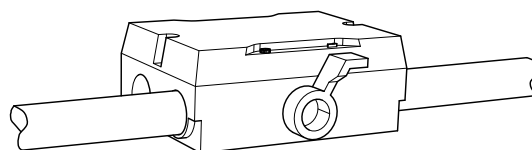
3

Level the unit with help of the enclosed mounting feet



4

Connect the unit electrically to the mains through the all pole circuit breaker (safety switch), which is enclosed inside the unit on delivery. The wiring is led through the gable of the unit (Topvex SX03-SX06) or through the top of the unit casing (Topvex TX03-TX06) directly to the electrical connection box.



See enclosed wiring diagram, and chapter 4.5.3.2 for more information.



Warning

The units electrical connection to the mains supply must be preceded by an all pole circuit breaker with a minimum 3 mm gap.



Danger

- Make sure that the Mains supply to the unit is disconnected before performing any maintenance or electrical work!
- All electrical connections must be carried out by an authorized installer and in accordance with local rules and regulations.

4.4 Supply air sensor Topvex SX03-SX06

The supply air sensor for Topvex SX03-SX06 is to be fitted in the supply air duct after the unit and connected to terminal blocks 11 and 12 in the connection box. Place the sensor at a distance of min. 2 meter from the unit. Other temperature sensors are built in to the unit from factory. The supply air sensor is enclosed in the package upon delivery. Topvex TX has a built in supply air sensor.

4.5 Connections

4.5.1 Ducting

4.5.1.1 Air connection principles

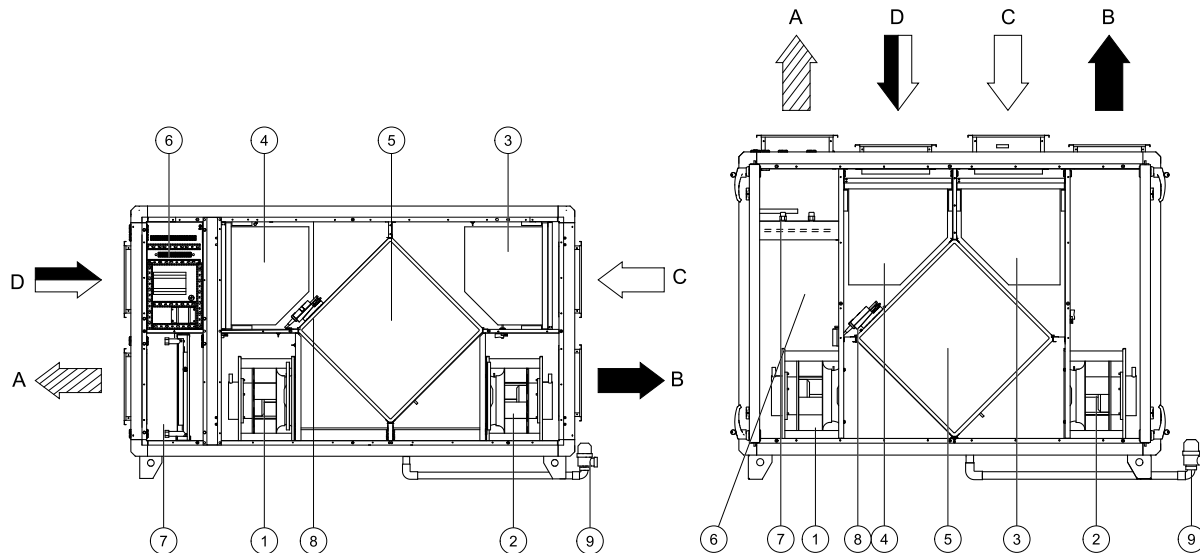






Fig. 8 Connections and basic components in left hand connected units

Position	Description	Symbol
A	Connection supply air	
B	Connection exhaust air	
C	Connection outdoor air	
D	Connection extract air	
1	Fan supply air	
2	Fan extract air	
3	Filter supply air	
4	Filter extract air	
5	Heat exchanger	
6	Electrical connection box	
7	Re-heater battery	
8	Bypass damper motor	
9	Condensation drainage with drain trap	

4.5.1.2 Condensation and Heat Insulation

Outdoor air duct and discharge ducts must always be well insulated against condensation. Correct insulation installation on ducts connected to the unit is especially important. All ducts installed in cold rooms/areas must be well insulated. Use insulating covering (minimum 100 mm mineral wool) with plastic diffusion barrier. In areas with extremely low outdoor temperatures during the winter, additional insulation must be installed. Total insulation thickness must be at least 150 mm.

⚠ Caution

- If the unit is installed in a cold place make sure that all joints are covered with insulation, and tape well
- Duct connections/duct ends should be covered during storage and installation
- Do not connect tumble dryers to the ventilation system

4.5.1.3 Silencers

To avoid fan noise being transferred via the duct system, silencers should be installed both on supply and extract air.

To avoid noise being transferred between rooms via the duct system and also to reduce noise from the duct system itself, installation of silencers before every inlet diffuser is recommended.

4.5.2 Condensation drain

The unit must be connected to the condensation drain, which is enclosed upon delivery. The drainage needs to be connected on the exhaust air side of the heat exchanger at the bottom of the unit figure 9.

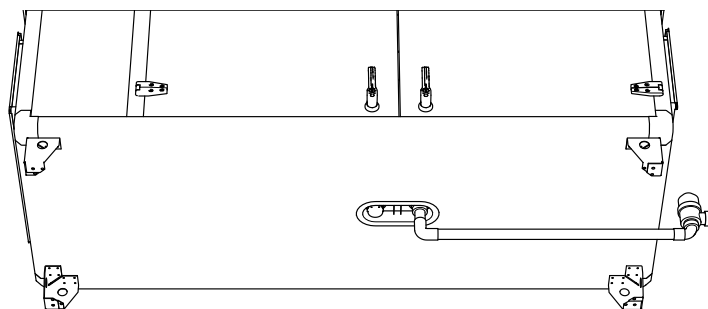


Fig. 9 Condensation drain

If the unit is to be used for cool recovery the normally plugged drainage on the outdoor air side needs to be connected as well to a separate tube and drain trap (accessory).

Use the enclosed connection tube, which needs to be cut down to the appropriate height. See table 2 how the height "H" corresponds to different maximum negative pressures. See figure 10 for dimensions and assembly.

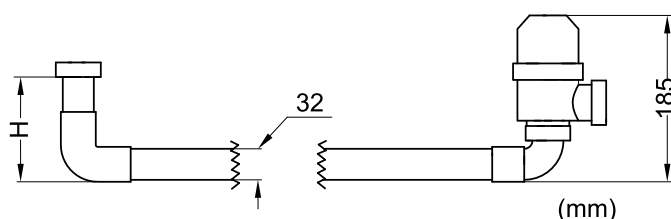


Fig. 10 Condensation drain

Table 2: Max negative pressure

H (mm)	Max. negative pressure (Pa)
85	500
110 ¹	750
135	1000

1. Normal condition

 **Caution**

When installed in a non heated place the drain pipe and trap needs to be insulated well to prevent the water from freezing.

4.5.3 Electrical Connections

All electric connections are made in the electrical connection box which can be found in the front of the unit (figure 8). The hatch is removed by unscrewing four screws (figure 11).

The unit must not be put into operation before all the electrical safety precautions have been read and understood. See the enclosed wiring diagram for internal and external wiring.

All external connections to possible accessories are made to terminals inside the electrical connection box (table 4.5.3.2).

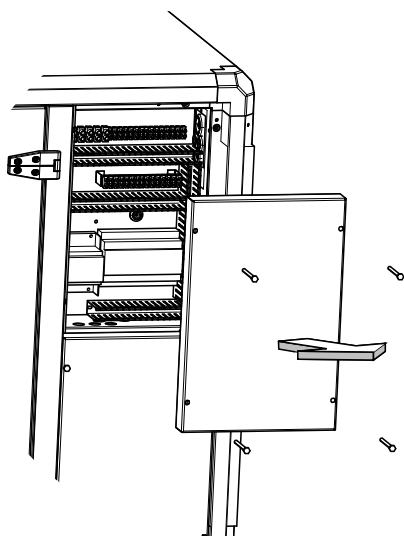


Fig. 11 Opening the electrical connection box

 **Danger**

- Make sure that the Mains supply to the unit is disconnected before performing any maintenance or electrical work!
- All electrical connections must be carried out by an authorized installer and in accordance with local rules and regulations.

4.5.3.1 Electrical connection box, Components

Topvex SX/TX are equipped with a built in regulator and internal wiring (figure 12).

The figure shows the electrical connection box for the Topvex SX03-SX06 units. The connection box for the Topvex TX03-TX06 has the same layout and components with the difference that the electrical heater is situated in a separate compartment.

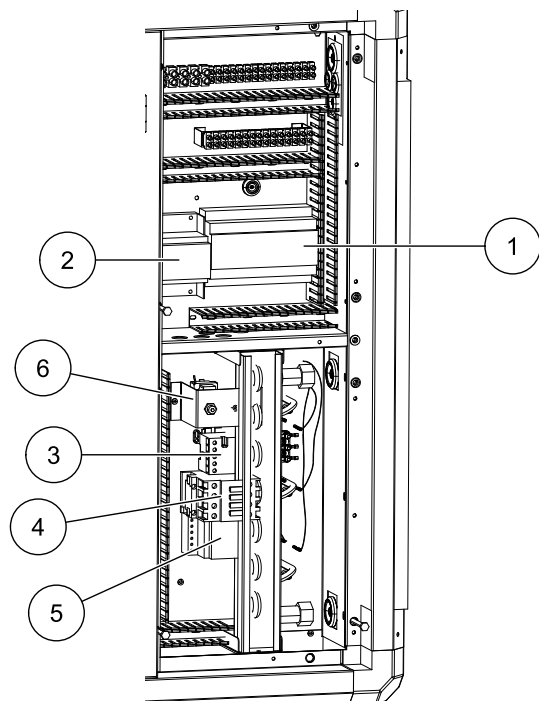


Fig. 12 Electrical components



Position	description
1	Regulator E283 S
2	Transformer 230/24V AC
3	Contactora (K2) On/Off Pump control water (HW units only, not used in EL-units)
4	Contactora (K3) for control of EL heater
5	Automatic fuse
6	Manual over heat protection reset (EL units)

4.5.3.2 External connections

Table 3: Topvex SX03-SX06 EL

Terminal block		Description	Remark
	PE	Ground	
N	N	Earthed neutral (supply voltage)	
L1	L1	Phase (supply voltage)	400V 3~/230V 3~
L2	L2	Phase (supply voltage)	
L3	L3	Phase (supply voltage)	
1	DO ref	Outdoor/Exhaust air damper	

Topvex SX03-SX06 EL cont'd

Terminal block		Description	Remark
2	DO1	Outdoor/Exhaust air damper	24V AC Max. 2,0 A continuous load
3 ¹	DI3	Extended/Forced running	
4 ¹	DI ref	Extended running/Fire alarm	
5 ¹	DI5	Fire alarm	
6	G	Supply voltage valve actuator, Cooling	24V AC
7	G0	Supply voltage valve actuator, Cooling	Neutral
8	AO2	Control signal cooling	0-10V DC
9	DO ref	Alarm signal reference	
10	DO5	Alarm output, for all alarms	24V AC Max. 2,0 A continuous load
11	AI Ref	Sensor supply air reference	
12	AI 1	Sensor supply air	

1. These inputs may only be wired to voltage free contacts.

Table 4: Topvex SX03, SX04 HW



Terminal block		Description	Remark
	PE	Ground	
N	N	Earthed neutral (supply voltage)	
L1	L1	Phase (supply voltage)	230V 1~
1	DO ref	Outdoor/Exhaust air damper	
2	DO1	Outdoor/Exhaust air damper	24V AC Max. 2,0 A continuous load
3 ¹	DI3	Extended/Forced running	
4 ¹	DI ref	Extended running / Fire alarm	
5 ¹	DI5	Fire alarm	
6	G	Supply voltage valve actuator, Cooling	24V AC
7	G0	Supply voltage valve actuator, Cooling	Neutral
8	AO2	Control signal Cooling	0-10V DC
9	DO ref	Alarm signal reference	
10	DO5	Alarm output, for all alarms	24V AC Max. 2,0 A continuous load
11	AI Ref	Sensor supply air reference	
12	AI 1	Sensor supply air	
13	G0	Supply voltage valve actuator, Heating	Neutral
14	G	Supply voltage valve actuator, Heating	24V AC
15	AO1	Control signal water heating	0-10V DC

Table 5: Topvex SX06 HW





Terminal block		Description	Remark
	PE	Ground	
N	N	Earthed neutral (supply voltage)	
L1	L1	Phase (supply voltage)	400V 3~/230V 3~
L2	L2	Phase (supply voltage)	
L3	L3	Phase (supply voltage)	
1	DO ref	Outdoor/Exhaust air damper	
2	DO1	Outdoor/Exhaust air damper	24V AC Max. 2,0 A continuous load
3 ¹	DI3	Extended/Forced running	
4 ¹	DI ref	Extended running/Fire alarm	
5 ¹	DI5	Fire alarm	
6	G	Supply voltage valve actuator, Cooling	24V AC
7	G0	Supply voltage valve actuator, Cooling	Neutral
8	AO2	Control signal cooling	0-10V DC
9	DO ref	Alarm signal reference	
10	DO5	Alarm output, for all alarms	24V AC Max. 2,0 A continuous load
11	AI Ref	Sensor supply air reference	
12	AI 1	Sensor supply air	
13	G0	Supply voltage valve actuator, Heating	Neutral
14	G	Supply voltage valve actuator, Heating	24V AC
15	AO1	Control signal water heating	0-10V DC

Table 6: Topvex TX03-TX06 EL

Terminal block		Description	Remark
	PE	Ground	
N	N	Earthed neutral (supply voltage)	
L1	L1	Phase (supply voltage)	400V 3~/230V 3~
L2	L2	Phase (supply voltage)	
L3	L3	Phase (supply voltage)	
1	DO ref	Outdoor/Exhaust air damper	
2	DO1	Outdoor/Exhaust air damper	24V AC Max. 2,0 A continuous load
3 ¹	DI3	Extended/Forced running	
4 ¹	DI ref	Extended running/Fire alarm	
5 ¹	DI5	Fire alarm	
6	G	Supply voltage valve actuator, Cooling	24V AC
7	G0	Supply voltage valve actuator, Cooling	Neutral
8	AO2	Control signal cooling	0-10V DC

Topvex TX03-TX06 EL cont'd

Terminal block		Description	Remark
9	DO ref	Alarm signal reference	
10	DO5	Alarm output, for all alarms	24V AC Max. 2,0 A continuous load

1. These inputs may only be wired to voltage free contacts.

Table 7: Topvex TX03,TX04 HW





Terminal block		Description	Remark
	PE	Ground	
N	N	Earthed neutral (supply voltage)	
L1	L1	Phase (supply voltage)	230V 1~
1	DO ref	Outdoor/Exhaust air damper	
2	DO1	Outdoor/Exhaust air damper	24V AC Max. 2,0 A continuous load
3 ¹	DI3	Extended/Forced running	
4 ¹	DI ref	Extended running / Fire alarm	
5 ¹	DI5	Fire alarm	
6	G	Supply voltage valve actuator, Cooling	24V AC
7	G0	Supply voltage valve actuator, Cooling	Neutral
8	AO2	Control signal Cooling	0-10V DC
9	DO ref	Alarm signal reference	
10	DO5	Alarm output, for all alarms	24V AC Max. 2,0 A continuous load
11	G0	Supply voltage valve actuator, Heating	Neutral
12	G	Supply voltage valve actuator, Heating	24V AC
13	AO1	Control signal water heating	0-10V DC

Table 8: Topvex TX06 HW

Terminal block		Description	Remark
	PE	Ground	
N	N	Earthed neutral (supply voltage)	
L1	L1	Phase (supply voltage)	400V 3~/230V 3~
L2	L2	Phase (supply voltage)	
L3	L3	Phase (supply voltage)	
1	DO ref	Outdoor/Exhaust air damper	
2	DO1	Outdoor/Exhaust air damper	24V AC Max. 2,0 A continuous load
3 ¹	DI3	Extended/Forced running	
4 ¹	DI ref	Extended running/Fire alarm	

Topvex TX06 HW cont'd

5 ¹	DI5	Fire alarm	
6	G	Supply voltage valve actuator, Cooling	24V AC
7	G0	Supply voltage valve actuator, Cooling	Neutral
8	AO2	Control signal cooling	0-10V DC
9	DO ref	Alarm signal reference	
10	DO5	Alarm output, for all alarms	24V AC Max. 2,0 A continuous load
11	G0	Supply voltage valve actuator, Heating	Neutral
12	G	Supply voltage valve actuator, Heating	24V AC
13	AO1	Control signal water heating	0-10V DC

4.5.3.3 BMS Connection

BMS Connection

Communication possibilities for controller E283 WEB.

- RS485(Modbus): 50-51-52 or 60-61-62
- RS485(Exoline): 50-51-52-53 or 60-61-62-63
- TCP/IP Exoline
- TCP/IP Modbus
- TCP/IP WEB
- BACnet/IP

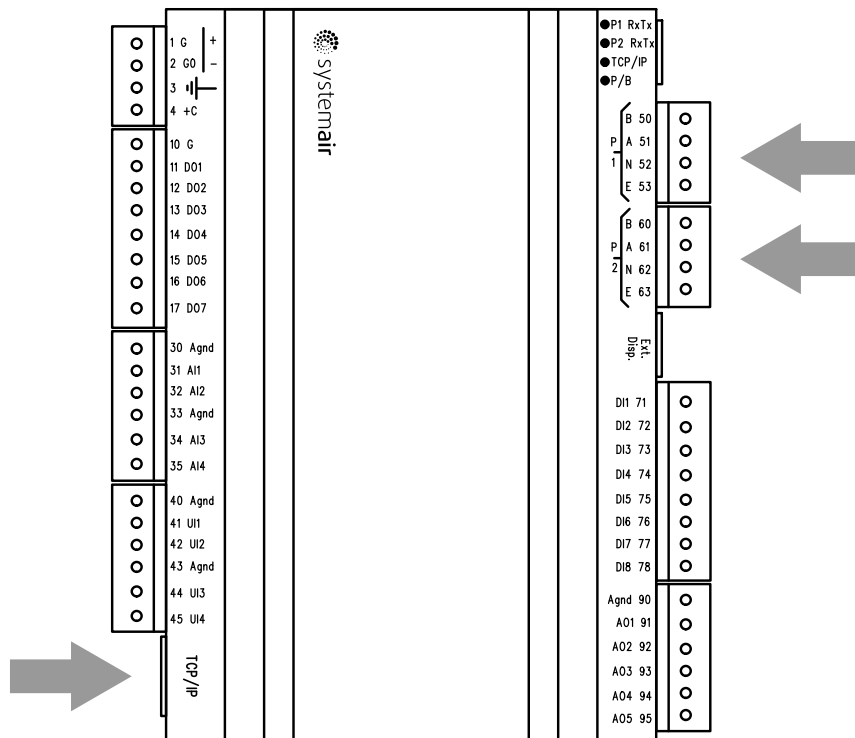


Fig. 13 BMS connection on the controller

4.6 Installing the Control Panel

4.6.1 Dimensions

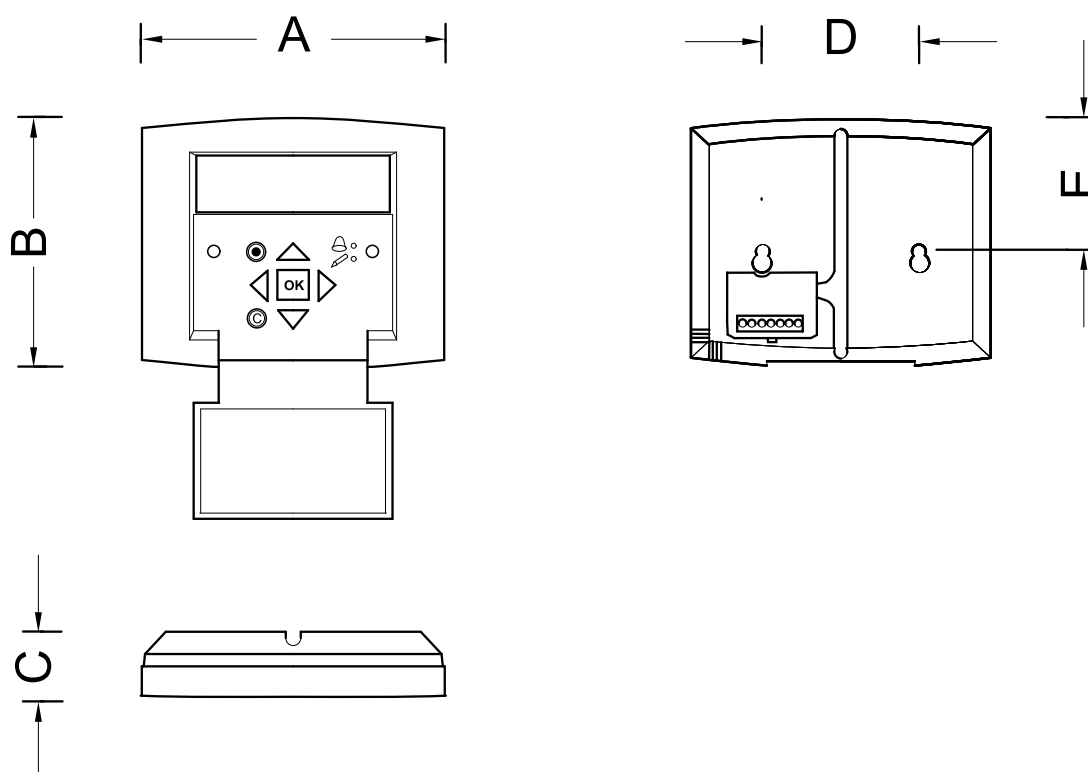


Fig. 14 Control panel dimensions

Position	Dimensions (mm)
A	115.0
B	94.0
C	26.0
D	c/c 60.0
E	50.5

4.6.2 General information

The control panel is delivered connected to the Corrigo control unit situated in the electrical connection box. Cable length is 10 m. In case the control panel needs to be detached from the signal cable it is possible to loosen the wires on the back of the control panel (figure 15).

A set of self-adhesive magnet strips are included in the package to facilitate installation on a metal surface.

4.6.3 Installation

1

Find an appropriate place to install the control panel. Maximum length between control panel and unit is 100 m.

2

If needed, drill two holes in the wall to hang the control panel (center to center: 60 mm) (pos.1, figure 15).

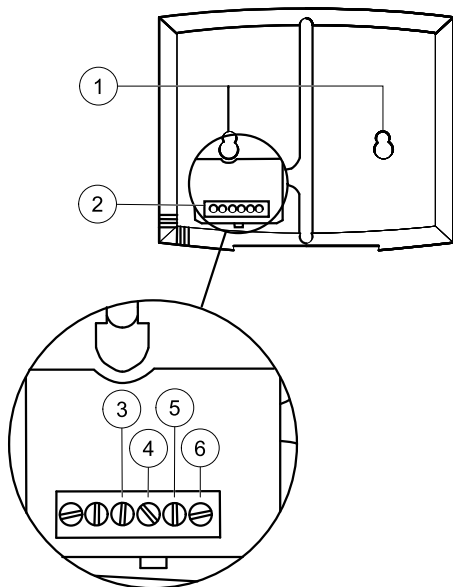


Fig. 15 Control panel wire connections

Position	Description
1	Mounting holes
2	Connection block
3	Connection to brown cable
4	Connection to yellow cable
5	Connection to white cable
6	Connection to black cable

4.7 Additional Equipment

For information concerning additional external equipment such as valve actuators, motorized dampers, E-tool, roof units, wall grilles etc. see technical catalogue and their enclosed instructions.

For electrical connections of external components see enclosed wiring chart.

Systemair AB reserves the right to make changes and improvements to the contents of this manual without prior notice.



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